SCIENCE AND PROGRESS

SCIENTIFIC BREVITIES AND POPU-LAR NEWS OF THE DAY.

A Simple Illustration of the Power of Centrifugal Force - A Well Known Optical Illusion Produced by a Tall

To show the power of centrifugal force are a bottle, fill it with water, and then nvert it until all the water has apparently

One would naturally say that only two r three drops remained adhering to the sterior, but if a sheet of blotting paper is



AN INTERESTING EXPERIMENT.

placed on a table, and the bottle-having been firmly grasped as shown in the engraving-is moved rapidly in the arc of a circle, with the mouth directed toward the paper, a surprisingly large number of drops will be found to have been absorbed by it. This is due to a twofold action of the centrifugal force developed by the motion of the bottle. The considerable amount of water adhering to the inside of the botthe is driven out of the mouth, and also broken up into a great number of very small drops, which, when absorbed by the blotting paper, give the impression of much larger drops than their actual size would

A well known optical illusion is that produced by the common tall or "stovepipe" hat. Let any one not familiar with the facts in the case try to estimate the comparative lengths of the height and width of such a hat and he will invariably make the vertical distance from one-quar-ter to one-half greater than the horizontal one. But by actual measurement, as shown in the engraving, the line A-B is longer than C-D; so that the very stylish and well proportioned hat thus shown is really not a "fall" one by any means, but its height is only an optical illusion produced by the projecting curved brim of the hat, which deceives the eye into a false perception of the relation between its different dimen-

In connection with this subject we m also mention the fact that a horse's head of average size is just the height of an or



dinary flour barrel, although most person would require the evidence of an actual measurement before being convinced. The illustrations here employed are from La Nature, while thanks are due to Popular Science News for the description,

Food Statistics. In an address on the standard living in the United States, read before the Ameri can Association for the Advancement of

Science, J. Richards Dodge said: In the use of food our people are excessive and even wasteful. According to se-cepted statistics Great Britain consumes an average meat ration not over two-thirds as large as the American; France scarcely half as large; Germany, Austria and Italy still less. But the laborer's dictary is improving in those countries. It has already greatly improved in England. The average consumption of ment in the United States is probably not less than 175 pounds per annum. Of other civilized nations only Great Britain exceeds 100, and many of them searonly average 50 pounds. The consumption of the cereals, by man and beast, is three times as much, in proportion to population, as in Europe. For the past ten years the average has been 45 bushels for each unit of population, while the usual European consumption does not vary great ly from 16 bushels per annum. While all is not used as food for man, no small part of it contributes to the most supply;

The average consumption of wheat for bread is nearly five bushels, and about three bushels of maize and one bushel of onts and tye, or approximately nine bushels for each inhabitant. The average European consumption of wheat is about 3.5 bushels. In the consumption ffruits the difference between this and other countries is marked with unusual emphasis. The consumption of vegetables is not ex-

A New Craft in Steel.

A novel industry is to be introduced into Leeds, says Popular Science News, by the opening of an establishment for boatmaking on a patent system, which consists of the stamping out of a boat from a single plate of soft steel. Of course only small craft, such as rowing boats and steam launches, can be made by this process.

Scientific News of the Day. A French journal tells of a magnet for extracting particles of metal that have penetrated into the skin and eyes of work-

men in mathine shops. Experiments made in Austria make it appear that the addition of soda to Portland

ment enables it to withstand the action Among recent inventions is "floating

rope," with a center consisting of a core of small round cerks placed end to end, and surrounded by a network of twine.

Popular Science News says: Salicylic acid is certainly not a poison, and it is doubtful if the small amount used in preserving food would do any particular harm. Still, the substance has well marked medicinal qualities, and the daily consumption of even small quantities is not to be recom-

When Baby was tick, we gave her Castoria, When she was a Child, she cried for Casteria. When she pecame Miss, she clung to Castoria. When she had Children, she gave them Castoria.

Wichita Wholesale & Manufacturing Houses.

The houses given below are representative ones in their line, and thoroughly reliable. They are furnished thus for ready reference for the South generally, as well as for city and suburban buyers. Dealers and inquirers should correspond direct

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Steam Engines, Boilers and Pumps, and Dealers in Brass Goods, Rubber and Hemp Packing, Steam Fittings, Etc. Repairing of all Kinds of Ma-chinery a Specialty. Orders promptly filled for all kinds of Sheet Iron Work. All kinds of castings made. A. FLAGG, Proprietor, - - - - Wichita, Kansas,

THE JOHNSTON & LARIMER DRY GOODS CO.

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THE C. E. POTIS DRUG CO.

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WHOLESALE DRUGGISTS

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Manufacturer,s wholesale, transfer and forwarding agents, and dealers

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Overalls, Jeans, Cassimere and Cottonade Pants; Duck Lined Coats and Vests;

Fancy Flannel and Cotton Overshirts; Canton Flannel

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Undershirts, Drawers, Etc.

BAKER, BLASDEL

Co., St. Louis, Mo.; Huber Engine Co., Marion, Ohio.

STRAY SITS.

named after "Mad Anthony Wayne.

There are 113 places in the United States

The earliest instance of an engraved gem

is the emerald ring of Polycrates, 740 B. C.

h, that being the orthography of the city's

In Central park, New York, on a fine

afternoon as many as 2,500 saddle horses

The banana plant has been found to con

tain a greater quantity of pure fiber than any of the other numerous vegetable pro-

A kitten in Hood River, Ore., caught a

lizard, and the reptile in attempting to es-

cape ran down its enemy's throat, where

There are but two words in the whole

range of the English language containing

all of the vowels in their regular order. They are abstemious and facetions.

Almost in the exact geographical center

of Wyoming is a mountain of solid hema-tite iron ore, with 600 feet of it above ground, more than a mile wide and over

Nearly 13,000,000 shad have been planted

in the open waters of Georgia during the last two years. The rivers of Georgia are said to be the best in the United States for

It is estimated that if the tobacco used

in France during a single year were twisted into a cord two inches in thickness it would

he long enough to encircle the earth thirty times, following the line of the equator.

it lodged, with fatal result to the cat.

ducts used for paper making.

two miles in length.

the propagation of fish.

Pittsburg is properly spelled with a final

FLOUR DEPOT

C Elsenmayer Sr. Milling and Elevator Co., Halstend, Kan., carry a full line of hard and so wheat flour at their agency in this city. Send f

SWAB & GLOSSER.

And Jobbers of Woolens and Tail-

145 N Main Street, - Wichita.

WICHITA BOTTLING WORKS,

Otto ZIMMERHANN, Prop.
Bottlers of Ginger Ale. Champagne
Cider, Sada Water, Standard Nerve
Food, also General Western
Agents for Wm. J.Lemp's Extra Pale.

Cor. First and Waco Sts., - Wichita.

EXTON WAREHOUSE.

JOHN EXTON, Office 61 E Douglas, Wichita

- Wichita, Kansas

the army is said to be leading a comfortable existence on a farm near St. Louis, to

which it was sent by Judge Long, of that city, to whom Gen. Grant presented the

Butterflies are to be the next victims of

ashion. Fans are decorated with the beau-

iful wings of these insects, caught in hun-

dreds for the purpose, the body, antennae and legs being sketched in afterward by

The men employed in the German fac-

ories in which smokeless powder is manu-

factured have been provided with rubber masks to protect them from the fumes

thrown off by the chemicals entering into the composition of the powder.

The superintendent of the dead letter of-

ce at Washington says that more than

6,000,000 pieces of mail matter are annually

sent to the dead letter office by reason of incorrect, illegible or deficient address, in-

DAUGHTERS OF EVE.

Gabrielle Greeley is the only surviving

Miss Helen Gladstone comes to 7 o'clock

dinner in a gingham gown and keeps the

Mrs. Ella May Barnett, of Honey Brook

L. I., is an ordained minister of the Uni-

Lady Euphemia Eglinton is causing a sensation in Whitechapel by driving a

Rosa Bonheur sold her last picture for

sufficient postage or insecure closing.

member of the great editor's family.

table in a roar.

versalist church.

costermonger's cart.

orices and samples.
OTTO WEISS, Agent, 253 N Main. Wichita

The Stewart Iron Works,

IRON FENCING

Architectural, Wrought and Cast Iron Work for Buildings. Factory: South Washington Avenue Wichita, Kansas.

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Pianos and Organs

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STALLING'S PALMOLE TOILET SOAP

Rheantiffes the complexies and beatty. (b) akin sort, smooth clear and healthy. For sale by druggists and groters. 526 Chicago Ave. - Telephone 99

215 and 217 South Main St.

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Send us a Trial Order or Call and See Us.

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Jobbers and Manufacturers, Teas. Coffees, Spices, Extracts, Baking Powders, Bluing, Cigars, Etc. 113 and 114 S Emporia Ave.

The quickest, strongest and purest Dry Hop Yeast on the market. Will keep a year in any climate. Price, 5 cents per package of 7 cakes For sale by all wholesale and retail grocers.

Manufactured by Corner & Farnum factory corner Kellogg and Mosiey Avenues.

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e 104 18th St. and 4th Ave., Wichita, Kar

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TINWARE, ETC. 213 South Main, Wichita, Kan.

The Hyde & Humble Sta. Co.,

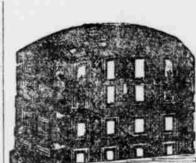
challenge and got away with "the iron man," as it is called. They kept it a year. Then the fire laddles of St. Catharines, Ont., captured it. From their hands the Books : and : Stationery, Wall Paper, Wrapping Papers. 106 E Douglas Ave., - Wichita. 114 N Main St., - Wichita, Kan

WICHITA WHOLESALE GROCERY CO.,

Wholesale: Grocers,

OFFICE AND WAREHOUSE 213 TO 223 SOUTH MARKET STREET.

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Manufacturer Of, Wholesale and Retail Dealer in Trunks, Valises, Satchels, Shawl and Trunk Straps, Pocket Books, Willow Ware, Etc.

125 W Douglas.



Miss Coral Quay, daughter of Senato

Quay, of Pennsylvania, has gone to Eu-

Mrs. Frank Leslie in full dress wears the

poetess of passion, was married recently to Francis W. Higgins, of St. Louis, Mo.

Miss Katle Marsden, another heroic and

earless Englishwoman like Sister Rose

Miss Charlotte M. Yonge, author of "The Heir of Redelyffe," at the age of 67 is busy writiting her 101st book. "The Slaves of

Mrs. Thomas C. Platt receives many

more letters than the ex-senator. Most of

them come from unfortunate and imperti-

nent people, who want everything a mortal

Mrs. Frances James, widow of G. P. R.

James, the English novelist and historian, has presented to the wardens of Christ church, Ean Claire, Wis. a vase for the altar, as "thanks offering to God for recov-

ATCHISON PHILOSOPHY.

Every wrinkle on a man's face looks like

Before doing a foolish thing remember

Many times when you are very indignant

ery from a serious illness.

that the world likes to laugh.

you are in the wrong yourself.

can want. Money is the general demand.

Gertrade, proposes to devote her life to the

mitigation of the suffering by leprosy.

Sabinus," a stery of Vespasian's time.

ope to complete her education.

Do not experiment with new FLOURS.

These brands have stood the test for sixteen years against all newcomers and have never been befeated.

All first-lass grocers sell them.



LIVER & IMBODEN CA WICHITA HAS.

ROLLERMILL

Heaven must be the place where every man receives what he thinks he deserves, Most love troubles arise out of the fact that most men think that women ought to

are overmalanced by millio weak position,

diamond decoration "El Busto del Liber be angels tador," given her by Venezuela. A man r ador," given her by Venezuela.

Lida Lewis Watson, the New England but he will find there is no getting out of it if he has the devil to pay.

Man learns from experience, after all; when the oldest girl of the family is given a musical education the other girls are not. For every day that a man knows a woman, he finds her capable of doing something better and meaner than he had believed she outled do. The most disgusting man in the world is

the fool who says by his actions: "Whatever comes into my little head is right; the world is wrong. I put the thoughts that happen into my little head against the ex-perience of the world."—Atomson Globe. INTERESTING FACTS.

Only one person in 1,000 dies of old age. Of every 1,000,000 people in the world 800 An inch of rain means 100 tons of water

TO REVETE BOYE There are at least 10,000,000 nerve fibers in the human body. A medie passes through eighty opera-

The smallest known insect, the Pterato

Many a man has strong good points that Children Cry for Pitcher's Castoria.

The thickness of the human bair varies from the 230th to the 600th part of an inch; blonde hair is the finest, and red the It is a fact established upon the author-

ity of travelers in different parts of the world that stammering is almost unknown

In China all the land belongs to the state

and a triffing sum per acre, never altered through long centuries, is paid as rent; this is the only tax in the country, and it

amounts to but about sixty cents per head.

FROM OFFICE BOY TO THIEF.

Between Times, Hovever, Washington

Ritter Was a Trasted Cashler. Washington Ritter has ended what might

have been a prosperous and honorable ca-reer in a manner so recklessly criminal as

almost to raise the question of his sanity. Fight years ago, at the age of 17, he en-

which was made the beadquarters

of extremely fast youth of both

sexes. He intro-duced Miss Zann

to his employers and friends as

among savage tribes.

parents.

WASH BITTER

his stealings.

WASH RITTEL Mrs. Ritter. The pace became too rapid for the cashier's in-

come, and he tampered with Lapsley & Gallup's bank account. Then he disap-

peared. At the same time the Zaun girl-

she is not yet 20-dropped out of view. Now detectives are looking for Ritter, and

his yacht has been seized. It is said that \$5,000 will more than cover the amount of

THE FIREMEN'S MASCOT.

It Is an Iron Image Which Has Been

Repeatedly Stolen.

thefts have taken place of which no court of justice will ever be asked to take cog-

The object of eupidity is the iron figure of a fireman. It was first heard of two decades ago at Auburn, N. Y. It rested so-

curely on the top of the Cayuga hose com-

pany's house for several years. It wasand is still for that matter-regarded as a mascot, but its owners declared that any

company could have it whose members

were brave and dexterous enough to steal

t without detection or arrest.

A Niagara Falls company accepted the

trophy was wrested by a St. Thomas com-pany. After that it went to Hamilton and

THE INON MAN

icals, of Albion, who riveted it with bars

of steel to the top of a hose tower 100 feet tall. The Rochester Protectives determined

to have it, and they got it. On a stormy night recently one of their number climbed

to the top of the tower, filed the steel bars

tectives now guard the iron man night and

To Hang for Murder and Robbery.

It was with this remark that William E.

and if nothing unforcesen intervenes he

Unwise Use of Narcotica

will stretch hemp to a few weeks.

sentence the other

day in the crimi-

mai court of Cook

county, at Chica-

go. The condemn

ed man, who is To

years old, was con-

'I thank your honor

W. E. PURDY.

in two, secured the prize, descended safely,

jumped in a carriage and fied. The Pro-

Within the past few years a number of

Try BEECHAM'S PILLS. 25cts. a Box. OF ALL DRUGGISTS.

How many readers can give the surname of the royal family of Great Britain? Nearly everyone that thinks himself wall in-formed will say Guelph, but this is not true. When Victoria married Prince Albert she dropped her own family surname and took that of her husband, just as any ordinary woman in a lower station in life would have done. This is a fact seldom taken into consideration. The family name of Prince Albert was Wettin, and so is that of all the kings of Sexeny .- St. Louis Re-

tered the employ of the New York broker-age firm of Lapsley & Gallup as an office boy. Bright, willing and capable, he was promoted from time to time until some Thomas Addison, of Fairfar county, Va-took from the hoof of an old family cow the other day, it is related, a handsome gold finger ring, with a large green stone months ago he received the appointment of cashier at an annual salary of \$1,300. Just after reaching his majority he mar-ried Florence Johnson, a pretty Yonkers maiden, who is now the mother of his three children. He failed to share his fluancial setting. On the scal was engraved a Mexthe name of D. J. Hunt and a Mexican cipher, and dates showing the ring to have prosperity with his wife, however. He neglected her for other women, and at last been in the Mexican war. How it got on his farm and in the boof of his cow Mr. she was forced to return to the home of her Addison does not know .- Philadelphia Ledger.

Young Ritter agreed to contribute \$40 per month to her support, but he broke his promise. Last winter he met a Ger-Experiments by means of photographic plates in the Mediterranean see show that in the middle of a sunny day in summer the rays of the sun do not penetrate the mun girl named Mamie Zaun, on whom he bestowed waters of that see a depth of more than 150 fathoms. In September the distance penehis unsteady affec-tions. About the trated is much reduced, the depression on the plates at the above depth not being same time he bought a yacht, greater than that made by starlight.



Teacher (finding out who had hit him with a paper ball -You thought that very funny, didn't you? Johnnie-I would have if I hadn't been caught.-Life

THE POINT.

From a Catholic Arch-Poorest of the Poor all testify, not only to the ST. JACOBS OIL,

The Great Remedy For Pain, but to its superiority over all other remedies, expressed thus: Cures Promptly, Permanently; ich means strictly, that the pain-stricken k a prompt relief with no return of the n, and this, ther asy, st. Jacobs Oil will s. This is its excellence.



SYPHILIS CUOK REMEDY CO., Omaba, Nebrask

EXCELSIOR SPRINGS *** Regent WATERS "Sulphe Nature's Tonic, Diuretic and Uric Solvent.
SOLD ONLY IN ROTTLES HT
WICHITA PRODUCE CO., Agents, 125 N. Market.



ERRORS OF YOUTH. SUFFERERS FROM Nerrous Bebillty. Be Your Own Physician 1 Purdy received Judge Grinnell's death ricted after a long trial of killing Samuel E. Reininger, a lad of 19: When the two n, 14 drucken. Diction, 14 drucken. The poll at to the and a

A POSITIVE THE LOST OF MERVOOR DESIGNATION CURE

WEAKMANHOOD

ances of a month's Chicago one day Purdy returned alone, packed his trutik and took a train for Mansfield, O. A farmer found Reininger's body in a marsh. Five builets had pierced the head. Nothing about the lad indicated his name save the letters "S. E. R." sewed in a hat band. At the morgue a closer ex-amination of the packets revealed a scrap of paper marked "Edita Kroer, Manafield, O." The girl on being communicated with identified the corpse as Heininger's. Purdy was arrosted, and in his possession the officers discovered the property of his victim. Everything potated to his guilt,

in an age of great intellectual activity and spiritual arrest, has led to a familiar resort to remedies which the prodence of an

earlier generation would have besitated to self administer. In the present case the unfortunate lady, who was in the habit of jons before it is perfectly made. injecting morphine into her forebead for the purpose of aliaring the pain, had ap-parently in an access of agony made exces-sive application of her accusomed remony

The recent death of a talented female arrist in England from the effects of mor-phine points the moral of the constant use f narcotics, which has attained so wide a prevalence. The frequency of neuralgia and similar complaints, which are part of the price paid for the advantage of living